

receiving the microchip ID sent from the printer; and  
associating the received microchip ID with the data to be printed.

21. A method as in claim 20 further comprising:  
sending the data for printing to the printer terminal.

22. A method as in claim 20 wherein the associating step includes;  
storing the microchip ID and at least some of the data to be printed in a database  
of the data manager.

23. A method as in claim 20 wherein the associating step further includes:  
storing the microchip ID and information associating the microchip ID and at  
least some of the data for printing in a database of the data manager.

24. A method as in claim 23 wherein the information associating the  
microchip ID and at least some of the data for printing comprises a personal certification  
ID.

25. A method as in claim 24 further comprising the steps of:  
receiving the personal certification ID as sent from the printer; and  
retrieving data for printing based on the personal certification ID.

26. A method as in claim 20 wherein the data for printing are stored in an  
external printing database.

27. A method as in claim 21 further comprising the step of charging a fee  
before sending the data for printing to the printer terminal.

28. A method as in claim 22 further comprising the step of storing a valid term  
for the data for printing within the microchip ID.

29. A data manager which communicates with a printer terminal, the printer terminal being capable of reading a microchip ID of a microchip in a paper and printing data to the paper, the data manager comprising:

a communication interface which receives the microchip ID from the printer terminal; and

a database which stores the microchip ID associating with at least some of the data for printing.

Q. 30. A data manager as in claim 29 wherein the communication interface controls sending the data associated with the microchip ID in the database to the printer terminal for printing.

31. A data manager as in claim 29 wherein the database stores the microchip ID and the at least some of data for printing.

32. A data manager as in claim 29 wherein the database stores the microchip ID and information associating the microchip ID with at least some of the data for printing.

33. A data manager as in claim 32 wherein the information associating the microchip ID and at least some of the data for printing is a personal certification ID.

34. A data manager as in claim 33 further comprising:  
a controller which controls the communication interface and the database;  
wherein the database stores the personal certification ID and certificate data for printing; the communication interface receives the personal certification ID and the microchip ID, and the controller retrieves the certificate data for printing based on the personal certification ID.

35. A data manager as in claim 30 further comprising charging means for charging a fee before sending the data for printing to the printer terminal.

36. A data manager as in claim 31 wherein the database stores a term for validity of printing the data associated with the microchip ID.

37. A method of printing in a printer terminal which communicates with a data manager comprising:

reading a microchip ID of a microchip attached to a paper;

sending the microchip ID to the data manager;

receiving data for printing sent from the data manager;

printing the data for printing onto the paper having the microchip, wherein at least some of the data for printing are associated with the microchip ID in the data manager.

38. A method as in claim 37 further comprising;

reading the microchip ID again;

before printing verifying whether the microchip ID read again is identical with the microchip ID sent to the data manager.

39. A method as in claim 37 further comprising sending a request for applying one type of printing data with the microchip ID to the data manager.

40. A method as in claim 37 further comprising sending a personal certificate ID and a personal identification number with the microchip ID to the data manager.

41. A program product stored on a printer terminal readable medium for controlling a printer terminal having a reader, a communication circuit, a controller and a printer, the program product comprising:

code for a read procedure that makes the reader read a microchip ID of a microchip attached to a paper;

code for a send procedure that makes the communication circuit send the microchip ID to the data manager;

code for a receive procedure that makes the communication circuit receive data for printing sent from the data manager;

code for a print procedure that makes the printer print the data for printing onto the paper having the microchip, wherein at least some of the printing data are associated with the microchip ID in the data manager.

42. A program product according to claim 41, further comprising;

code for a read procedure that makes the reader read the microchip ID again; and,

code for a verify procedure that makes the controller verify before printing whether the microchip ID read again is identical with the microchip ID sent to the data manager.

43. A program product according to claim 41 wherein, the code for the send procedure causes the communication circuit send a request for applying one kind of printing data with the microchip ID to the data manager.

44. A program product according to claim 41, wherein the code for the send procedure causes the communication circuit to send a personal certificate ID and a personal identification number with the microchip ID to the data manager.

45. A printer terminal, comprising:

a reader which reads a microchip ID of a microchip in a paper;

a communication circuit which sends the microchip ID read by the reader to a data manager, and which also receives data for printing sent from the data manager; and

a printer which prints the data for printing to the paper, wherein at least some of the data for printing are associated with the microchip ID in the data manager.

46. A printer terminal according to claim 45, further comprising a controller which controls the reader to read the microchip ID again before printing data to the paper, and verifies whether the microchip ID read again is identical with the microchip ID sent

to the data manager, and then controls the printer to cause it to print the printing data to the paper.

47. A printer terminal according to claim 45 further comprising an input device which inputs a request for applying one type of the printing data, wherein the communication circuit sends the request with the microchip ID to the data manager.

Q 48. A printer terminal according to claim 45 further comprising an input device which inputs a personal certificate ID and a personal identification number; wherein the communication circuit sends the personal certificate ID and the personal identification number with the microchip ID to the data manager.

49. A method of verifying data printed on a paper having a microchip ID, the paper printed by method according to claim 37, in a data manager which enables to communicate with a verifying terminal which reads microchip ID of a microchip in a paper, comprising the steps of:

receiving the microchip ID sent from the verifying terminal; and  
retrieving the microchip ID from a database.

50. A method as in claim 37, further comprising the step of sending the data associated with the microchip ID to the verifying terminal.

51. A verifying data manager for data printed on a paper having a microchip ID, the paper printed by method according to claim 37, the data manager comprising:  
a communication interface which receives the microchip ID sent from a verifying terminal which reads the microchip ID of the microchip in a paper;  
a database which stores the microchip ID and associated data for printing; and  
a controller which retrieves the microchip ID from the database.

52. A verifying data manager according to claim 51 wherein the communication interface sends the data associated with the microchip ID to the verifying terminal.

53. A method of verifying data printed on a paper having a microchip ID, the paper printed by method according to claim 37, in a verifying terminal which communicates with a verifying data manager, the method comprising the steps of:  
reading the microchip ID of the microchip from the paper; and  
sending the microchip ID to the verifying data manager.

54. A verifying method according to claim 53 further comprising the steps of:  
receiving the data associated with the microchip ID at the verifying terminal; and  
displaying the received data associated with the microchip ID.

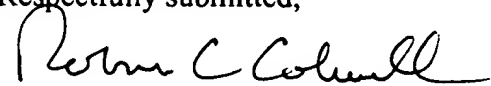
55. A verifying terminal for data printed on paper having a microchip ID, the paper printed by method according to claim 37 comprising:  
a reader which reads the microchip ID of the microchip in the paper; and  
a communication interface which sends the microchip ID to a verifying manager.

56. A verifying terminal according to claim 55 wherein the communication interface receives the data associated with the microchip ID from the verifying manager, and displays the received data for verification.

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If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Respectfully submitted,



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